

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC
P.O. BOX 23660
OAKLAND, CA 94623-0660
PHONE (510) 286-4589
FAX (510) 286-4561



*Flex your power!
Be energy efficient!*

August 31, 2012

4-Mrm-1-PM 28.00/30.25

REPORT OF THE ENGINEERING AND TRAFFIC SURVEY

I. SURVEY ORIGIN AND CONTENT

A memo dated May 21, 2009, from the California Highway Patrol, signed by Captain Robert J. Morehen, requested a current speed zone survey be conducted on Route 1, Shoreline Highway, in the Community of Point Reyes Station, in Marin County. The survey was requested between post miles 28.00 and 30.25, so that the prevailing speed limit may be determined and that radar enforcement may be utilized. The request is in accordance with the California Vehicle Code Section 22354.

This survey includes:

- Analysis and recommendations – For each speed zone studied, an analysis of prevailing speeds, accident data, and roadway conditions not readily apparent to the driver was performed; and the appropriate speed limit recommended.
- Enforcement jurisdiction and attitude.
- Summary of recommendations.

II. ANALYSIS AND RECOMMENDATIONS

A. Between PM 28.00 at 2600 feet south of Sir Francis Drake Boulevard and PM 28.26 at 1200 feet south of Sir Francis Drake Boulevard

1. Analysis

a. Prevailing Speed Data

The existing maximum speed limit is 55 mph.

The prevailing speed checks are as follows:

		<u>Northbound</u>	<u>Southbound</u>
Critical Speed	-	43.0 mph	45.0 mph
Pace Speed	-	35-45 mph	35-45 mph
Average Speed	-	40.5 mph	40.2 mph

The speed data supports reduction of the existing speed limit.

b. Accident Data

The accident rates within this highway segment are as follows:

	<u>Actual Rates</u>		<u>Average Rates</u>	
	<u>Fatal & Injury</u>	<u>Total</u>	<u>Fatal & Injury</u>	<u>Total</u>
2008	3.45	3.45	0.63	1.37
2009	0.00	0.00	0.63	1.37
2010	0.00	0.00	0.63	1.37

An analysis of the three-year accident history for 2008, 2009, and 2010 indicates that there was 1 accident, and the cause of the accident was Improper Turn.

The accident was not intersection related.

The collision type was Hit-Object.

Analysis of the accident data indicates that the actual accident rates are lower than the statewide average rates.

c. Highway, Traffic, and Roadside Conditions Not Readily Apparent to the Driver

None.

2. Recommendations

Reduce the existing speed limit from 55 mph to 45 mph.

B. Between PM 28.26 at 1200 feet south of Sir Francis Drake Boulevard and PM 28.64 at 200 feet north of B Street

1. Analysis

a. Prevailing Speed Data

The existing speed limit is 35 mph.

The prevailing speed checks are as follows:

		<u>Northbound</u>	<u>Southbound</u>
Critical Speed	-	36.5 mph	36.0 mph
Pace Speed	-	27.5-37.5 mph	27.5-37.5 mph
Average Speed	-	32.5 mph	33.2 mph

The speed data is consistent with retention of the existing speed limit.

b. Accident Data

The accident rates within the highway segment are as follows:

	<u>Actual Rates</u>		<u>Average Rates</u>	
2008	0.00	2.17	0.63	1.36
2009	2.17	2.17	0.63	1.36
2010	0.00	4.35	0.63	1.36

An analysis of the three-year accident history for 2008, 2009, and 2010 indicates that of the 4 accidents, the relevant collision factors were as follows: 25 percent – Influence Of Alcohol, 25 percent – Failure To Yield, and 50 percent – Other Violations.

Seventy-five percent of the accidents were intersection related.

Types of collisions were as follows: Sideswipe – 25 percent, Broadside – 50 percent, and Overturn – 25 percent.

Analysis of the accident data indicates that the present speed limit is appropriate.

c. Highway, Traffic, and Roadside Conditions Not Readily Apparent to the Driver

None.

2. Recommendations

Retain the existing speed limit of 35 mph.

C. Between PM 28.64 at 200 feet north of B Street and PM 29.49 at 840 feet north of Point Reyes-Petaluma Road

1. Analysis

a. Prevailing Speed Data

The existing speed limit is 25 mph.

The prevailing speed checks are as follows:

		<u>Northbound</u>	<u>Southbound</u>
Critical Speed	-	28.7 mph	27.5 mph
Pace Speed	-	19.2-29.2 mph	19.5-29.5 mph
Average Speed	-	24.5 mph	24.4 mph

The speed data is consistent with retention of the existing speed limit.

b. Accident Data

The accident rates within the highway segment are as follows:

	<u>Actual Rates</u>		<u>Average Rates</u>	
	<u>Fatal & Injury</u>	<u>Total</u>	<u>Fatal & Injury</u>	<u>Total</u>
2008	0.00	1.24	0.61	1.32
2009	1.23	2.47	0.61	1.32
2010	0.62	3.70	0.61	1.32

An analysis of the three-year accident history for 2008, 2009, and 2010 indicates that of the 12 accidents, the relevant collision factors were as

follows: 17 percent – Influence Of Alcohol, 33 percent – Failure To Yield, 25 percent – Improper Turn, 17 percent – Other Violations, and 8 percent – Other Than Driver.

Seventeen percent of the accidents were intersection related.

Types of collisions were as follows: Head-On – 9 percent, Sideswipe – 17 percent, Broadside – 25 percent, Hit-Object – 25 percent, Overturn – 8 percent, Auto-Pedestrian – 8 percent, and Other – 8 percent.

Analysis of the accident data indicates that the present speed limit is appropriate.

c. Highway, Traffic, and Roadside Conditions Not Readily Apparent to the Driver.

None.

2. Recommendations

Retain the existing speed limit of 25 mph.

D. Between PM 29.49 at 840 feet north of Point Reyes-Petaluma Road and PM 30.25 at Cypress Road

1. Analysis

a. Prevailing Speed Data

The existing speed limit is 35 mph.

The prevailing speed checks are as follows:

	<u>Northbound</u>	<u>Southbound</u>
Critical Speed	- 38.5 mph	37.2 mph
Pace Speed	- 28.5-38.5 mph	27.2-37.2 mph
Average Speed	- 33.2 mph	32.2 mph

The speed data is consistent with retention of the existing speed limit.

b. Accident Data

The accident rates within the highway segment are as follows:

	<u>Actual Rates</u>		<u>Average Rates</u>	
	<u>Fatal & Injury</u>	<u>Total</u>	<u>Fatal & Injury</u>	<u>Total</u>
2008	1.56	1.56	0.64	1.40
2009	1.56	3.13	0.64	1.40
2010	1.56	1.56	0.64	1.40

An analysis of the three-year accident history for 2008, 2009, and 2010 indicates that of the 4 accidents, the relevant collision factors were as follows: 25 percent – Speeding, 25 percent – Influence Of Alcohol, 25 percent – Other Violations, and 25 percent – Other Than Driver.

None of the accidents was intersection related.

Types of collisions were as follows: Hit-Object – 25 percent, Rear End – 25 percent, and Overturn – 50 percent.

Analysis of the accident data indicates that the present speed limit is appropriate.

c. Highway, Traffic, and Roadside Conditions Not Readily Apparent to the Driver

None.

2. Recommendations

Retain the existing speed limit of 35 mph.

III. ENFORCEMENT JURISDICTION AND ATTITUDE

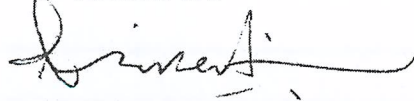
The California Highway Patrol concurs with the recommendations in this report.

IV. SUMMARY OF RECOMMENDATIONS

- A. Reduce the existing speed limit from 55 mph to 45 mph between PM 28.00 and PM 28.26.

- B. Retain the existing 35 mph speed limit between PM 28.26 and PM 28.64.
- C. Retain the existing 25 mph speed limit between PM 28.64 and PM 29.49.
- D. Retain the existing 35 mph speed limit between PM 29.49 and PM 30.25.

PREPARED BY



MICHAEL KO
Transportation Engineer
Office of Traffic – Speed Surveys

APPROVED BY



PHILIPPE VAN
Senior Transportation Engineer
Office of Traffic
License No. 53727

State of California
Business, Transportation and Housing Agency

ORDER DECREASING THE SPEED LIMIT ON A STATE HIGHWAY

The Department of Transportation, pursuant to the provisions of Section 22354 of the California Vehicle Code, having determined that a speed limit of 65 miles per hour is more than reasonable and safe upon the portion of State Highway hereinafter described and that the speed limit hereinafter specified 35 miles per hour is appropriate to facilitate the orderly movement of traffic and is reasonable and safe thereon.

IT IS ACCORDINGLY ORDERED that a speed limit be set at 35 miles per hour, and the same is hereby determined and declared on and for State Highway Route 1, Shoreline Highway, from Post Mile 28.26, at 1200 feet south of Sir Francis Drake Boulevard to Post Mile 28.64, at 200 feet north of B Street, in the County of Marin.

IT IS FURTHER ORDERED that appropriate signs giving notice of said speed limit be erected upon said State Highway to indicate the said speed limit and that said speed limit shall be effective upon erection of such signs.

Any previous orders concerning speed limits on the above described portions of said State Highway are herewith revoked.

This order is made pursuant to the Department of Transportation current delegations of authority from the Director to the undersigned Deputy District Director.


S. SEAN NOZZARI
Deputy District Director
Traffic Operations

Date: 9/4/12

State of California
Business, Transportation and Housing Agency

ORDER DECREASING THE SPEED LIMIT ON A STATE HIGHWAY

The Department of Transportation, pursuant to the provisions of Section 22354 of the California Vehicle Code, having determined that a speed limit of 65 miles per hour is more than reasonable and safe upon the portion of State Highway hereinafter described and that the speed limit hereinafter specified 45 miles per hour is appropriate to facilitate the orderly movement of traffic and is reasonable and safe thereon.

IT IS ACCORDINGLY ORDERED that a speed limit be set at 45 miles per hour, and the same is hereby determined and declared on and for State Highway Route 1, Shoreline Highway, from Post Mile 28.00, at 2600 feet south of Sir Francis Drake Boulevard to Post Mile 28.26, at 1200 feet south of Sir Francis Drake Boulevard, in the County of Marin.

IT IS FURTHER ORDERED that appropriate signs giving notice of said speed limit be erected upon said State Highway to indicate the change in speed limit and that said speed limit shall be effective upon erection of such signs.

Any previous orders concerning speed limits on the above described portions of said State Highway are herewith revoked.

This order is made pursuant to the Department of Transportation current delegations of authority from the Director to the undersigned Deputy District Director.


S. SEAN NOZZARI
Deputy District Director
Traffic Operations

Date: 9/4/12

State of California
Business, Transportation and Housing Agency

ORDER DECREASING THE SPEED LIMIT ON A STATE HIGHWAY


The Department of Transportation, pursuant to the provisions of Section 22354 of the California Vehicle Code, having determined that a speed limit of 65 miles per hour is more than reasonable and safe upon the portion of State Highway hereinafter described and that the speed limit hereinafter specified 25 miles per hour is appropriate to facilitate the orderly movement of traffic and is reasonable and safe thereon.

IT IS ACCORDINGLY ORDERED that a speed limit be set at 25 miles per hour, and the same is hereby determined and declared on and for State Highway Route 1, Shoreline Highway, from Post Mile 28.64, at 200 feet north of B Street to Post Mile 29.49, at 840 feet north of Point Reyes-Petaluma Road, in the County of Marin.

IT IS FURTHER ORDERED that appropriate signs giving notice of said speed limit be erected upon said State Highway to indicate the said speed limit and that said speed limit shall be effective upon erection of such signs.

Any previous orders concerning speed limits on the above described portions of said State Highway are herewith revoked.

This order is made pursuant to the Department of Transportation current delegations of authority from the Director to the undersigned Deputy District Director.


S. SEAN NOZZARI
Deputy District Director
Traffic Operations

Date: 9/4/12

State of California
Business, Transportation and Housing Agency

ORDER DECREASING THE SPEED LIMIT ON A STATE HIGHWAY


The Department of Transportation, pursuant to the provisions of Section 22354 of the California Vehicle Code, having determined that a speed limit of 65 miles per hour is more than reasonable and safe upon the portion of State Highway hereinafter described and that the speed limit hereinafter specified 35 miles per hour is appropriate to facilitate the orderly movement of traffic and is reasonable and safe thereon.

IT IS ACCORDINGLY ORDERED that a speed limit be set at 35 miles per hour, and the same is hereby determined and declared on and for State Highway Route 1, Shoreline Highway, from Post Mile 29.49, at 840 feet north of Point Reyes-Petaluma Road to Post Mile 30.25, at Cypress Road, in the County of Marin.

IT IS FURTHER ORDERED that appropriate signs giving notice of said speed limit be erected upon said State Highway to indicate the said speed limit and that said speed limit shall be effective upon erection of such signs.

Any previous orders concerning speed limits on the above described portions of said State Highway are herewith revoked.

This order is made pursuant to the Department of Transportation current delegations of authority from the Director to the undersigned Deputy District Director.


S. SEAN NOZZARI
Deputy District Director
Traffic Operations

Date: 9/4/12